

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/614,686	07/07/2003	Jean-Pierre Schoellkopf	S1022.81020US00	7411	
23628	7590 03/24/2006		EXAMINER		
WOLF GREENFIELD & SACKS, PC			NADAV, ORI		
FEDERAL RESERVE PLAZA 600 ATLANTIC AVENUE			ART UNIT	PAPER NUMBER	
BOSTON, MA 02210-2206			2811		
			DATE MAILED: 03/24/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/614,686	SCHOELLKOPF, JEAN-PIERRE	
Office Action Summary	Examiner	Art Unit	-
•	Ori Nadav	2811	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	_
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a repty be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status .			
1)⊠ Responsive to communication(s) filed on 22 Fe 2a)⊠ This action is FINAL. 2b)□ This 3)□ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) ⊠ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) 1-6 is/are withdrawn  5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 7-10 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/o	from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is object.	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage	
	•		
Attachment(s)			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)         Paper No(s)/Mail Date     </li> </ol>	4) Interview Summary ( Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	e´.	
5. Patent and Trademark Office TOL -326 (Rev. 7-05)	tion Summany	Part of Paner No /Mail Date 022205	-

Application/Control Number: 10/614,686

Art Unit: 2811

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 7 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Daubenspeck et al. (6,496,053).

Daubenspeck et al. teach in figures 22-25 and related text an integrated circuit adapted to specific needs, comprising a stack of insulating layers 2203, each layer being associated with a determined metallization level 2100, metal areas of the last and uppermost metallization level forming electric contacts of the integrated circuit, comprising:

pairs of metal regions (pairs of lower metal regions of 2100) of the penultimate metallization level having a facing edge and connected to components of the integrated circuit;

insulating portions (portions of dielectric layer 2203) covering the edges of the metal regions (lower regions of 2100) of determined pairs according to the specific needs; and

Art Unit: 2811

metal portions (upper portions of 2100) of the last and uppermost metallization level which cover the facing edges of the metal regions (middle metal regions of 2100) of all pairs and which connect the metal regions of the pairs other than the determined pairs (lower regions of 2100).

Page 3

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daubenspeck et al. in view of Seshan (6,521,996).

Daubenspeck et al. teach substantially the entire claimed structure, as recited in claims 7 and 9, except a passivation layer covering the metal portions. Seshan teaches in figure 2a and related text a passivation layer 214 covering the metal portions. It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teaching of Seshan into the device of Daubenspeck et al. in order to provide better protection to the device.

Art Unit: 2811

### Response to Arguments

Applicant argues that Daubenspeck et al. do not teach the claimed invention, because insulating layer 2003 of Daubenspeck et al. will cover the facing edges of all pairs of metal regions and not selected pairs.

There is no distinction between covering the facing edges of all pairs of metal regions and those of selected pairs, since the selected pairs can be all the pairs.

Furthermore, insulating layer 2003 of Daubenspeck et al. can be considered as the layer located only in one level of metallization, and thus covering the facing edges of selected pairs of metal regions only in that level, and not covering selected pairs in the second level of metalization.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 10/614,686

Art Unit: 2811

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ori Nadav whose telephone number is 571-272-1660.

The examiner can normally be reached between the hours of 7 AM to 4 PM (Eastern

Standard Time) Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Eddie Lee can be reached on 571-272-1732. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

O.N. 3/19/06 ORI NADAV
PRIMARY EXAMINER
TECHNOLOGY CENTER 2800

Page 5